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## **CLAIMS**

1. An apparatus for automatically detecting unwanted messages in real time in a system that includes a message server for routing incoming message files to a directory, the apparatus comprising:

a redundant email address detection and capture system (READACS), said READACS comprising a computer implemented program comprising:

a process for accessing said directory and for identifying said message files;

a process for locating any of an address-of-origin, subject, or other specified criteria within each said message file;

a process for identifying whether each said message file should be considered spam;

a process for separating said spam and non-spam message files logically; and

a process for any of physically moving and renaming said message files in a predetermined fashion.

- 20. 2. The apparatus of Claim 1, wherein said process for identifying whether each said message file should be considered spam applies any of a frequency threshold and a quantity threshold.
- The apparatus of Claim 1, said READACS further comprising a process for
  identifying message files that are excepted from said process for identifying
  whether each said message file should be considered spam.
  - 4. A method for automatically detecting unwanted messages in real time in a system that includes a message server for routing incoming message files to a directory, the method comprising the steps of:

accessing said directory and for identifying said message files;

locating any of an address-of-origin, subject, or other specified criteria within each said message file;

identifying whether each said message file should be considered spam; separating said spam and non-spam message files logically; and any of physically moving and renaming said message files in a predetermined fashion.

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- 5. The method of Claim 4, wherein said identifying whether each said message file should be considered spam step applies any of a frequency threshold and a quantity threshold.
- 10 6. The method of Claim 4, further comprising the step of:

identifying message files that are excepted from said identifying whether each said message file should be considered spam step.

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7. The method of Claim 4, said accessing step further comprising the steps of:

reading a RecentFileList from a RecentFile; and loading said RecentFileList into a RecentListArray;

wherein if a BypassFileList is included, reading said BypassFileList into a BypassArray.

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8. The method of Claim 7, said locating step further comprising the steps of:

creating a NewListArray;

opening said message files;

extracting message addresses of a sender as defined in any of MailInDirName, AddrLineLocator, and AddrInfoLocator fields;

loading said NewListArray with new message sender addresses and associated file names.

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- 9. The method of Claim 8, said locating step further comprising the steps of: setting an arrival time for all records in said NewListArray; combining said NewListArray into said RecentListArray; marking new records as IsNew = True; and' sorting said RecentListArray by message sender addresses.
- 10. The method of Claim 9, said identifying step further comprising the steps of:

determining the age of a message sender address based upon a SecondsThreshold when a message sender address is retrieved from said RecentListArray;

if said message file is older than said threshold, marking said message file as IsExpired = True by Seconds Threshold;

determining whether said message sender address occurs more often than a SourceThreshold allows;

optionally, if yes, examining said message sender address to determine if it is to be passed anyway because it is identified in said BypassArray; and

marking said message file as IsSpam = True if said message file exceeds said SourceThreshold, and said SecondThreshold has not timed out, and optionally said message file is not listed in said BypassArray.

11. A method for automatically detecting unwanted messages in real time in a system that includes a message server for routing incoming message files to a directory, the method comprising the steps of:

receiving a message file at a host system;

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routing said message file to said directory;

writing said message file with a prefix and/or suffix that allows it to be identified as a new message;

identifying all message files in said directory that are spam; and any of renaming and moving said message files.

12. The method of Claim 11, wherein a message file is identified as spam based upon said message file's address-of-origin, where said address-of-origin is identified by a process comprising the steps of:

identifying a line on which a message file address may reside; and

extracting said address-of-origin from said line by searching for an indicator within said line.

- 13. The method of Claim 11, wherein message files are analyzed and determined to be spam or non-spam through a combination of a time threshold, bypass exceptions and tolerances, and a maximum number of allowed messages from any one address
  - 14. The method of Claim 11, said method requiring minimum implementation parameters which comprise:
- a path and/or name of a recent file;
  - a path and/or name of a bypass file;
  - an incoming mail directory;

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a directory and/or file name suffix for non-spam mail;

a directory and/or file name suffix for spam mail;

a number of seconds to accumulate information before clearing it;

a number of occurrences of any one address to allow within a value; and

a string for which to search within each file processed to determine if said string should contain an address; wherein only a first occurrence of a locator within a file is evaluated.

15. The method of Claim 11, said method implementation parameters optionally comprising:

partial file names to be excluded from processing; wherein any file including a specific string specified is excluded from processing;

partial file names to be included in processing; wherein only files including a string specified are processed;

a suffix for processed non-spam files (SetRenameSuffix); only optional if SetDestinationDirName is defined.

a destination directory path for non-spam files;

a suffix for processed spam files;

a destination directory path for spam files; and

a string defining what should be considered an address within a line previously identified.

- 16 An apparatus for redundant email address detection and capture, 5 comprising:
  - a plurality of sending entities for originating email messages;
  - a public network for routing said email messages to a destination;
  - a destination mail server;
- a mechanism at said mail server for identifying newly arrived newsages;
  - a directory to which are newly arrived messages re routed; and
  - a mechanism for examining messages in said directory and for classifying said messages as spam or non-spam based upon a number of messages received from an identified sending address within a specific interval;

wherein non-spam messages are routed to appropriate destinations in accordance with previously established routing instructions; and wherein spam is sent to one or more predetermined destinations.